

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 SUN: Aquaterra Tech. PO Box 744 West Chester PA 19381

April 27, 2011

Project: SUN: Philadelphia Refinery AOI-10

Submittal Date: 04/19/2011 Group Number: 1242849 PO Number: PHILADELPHIA State of Sample Origin: PA

Client Sample Description Lancaster Labs (LLI) #

W-31@0'-2' Grab Soil 6262297 W-30@0'-2' Grab Soil 6262298

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC Langan Attn: Dennis Webster

COPY TO

ELECTRONIC SUN: Aquaterra Tech. Attn: Tiffani Doerr

COPY TO

ELECTRONIC LLI Attn: EDD Group

COPY TO

ELECTRONIC Langan Attn: Kristen Ward

COPY TO

ELECTRONIC Aquaterra Tech Attn: Loretta Belfiglio

COPY TO



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Questions? Contact your Client Services Representative Jessica A Oknefski at (717) 656-2300 Ext. 1815

Respectfully Submitted,

Robin C. Runkle Senior Specialist



Dry

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Sample Description: W-31@0'-2' Grab Soil

Philadelphia Refinery AOI-10

COC: 259437 W-31@0'-2'

LLI Sample # SW 6262297 LLI Group # 1242849

Account # 10132

Project Name: SUN: Philadelphia Refinery AOI-10

Collected: 04/15/2011 08:30 by TD SUN: Aquaterra Tech.

PO Box 744

Dry

West Chester PA 19381

Submitted: 04/19/2011 14:50 Reported: 04/27/2011 17:23

31-02

CAT No.	Analysis Name		CAS Number	Dry Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/kg		ug/kg	ug/kg	
10950	Benzene		71-43-2	89	J	37	370	63.87
10950	1,2-Dibromoethane		106-93-4	N.D.		75	370	63.87
10950	1,2-Dichloroethane		107-06-2	N.D.		75	370	63.87
10950	Ethylbenzene		100-41-4	76	J	75	370	63.87
10950	Isopropylbenzene		98-82-8	400		75	370	63.87
10950	Methyl Tertiary Buty	yl Ether	1634-04-4	N.D.		37	370	63.87
10950	Toluene		108-88-3	94	J	75	370	63.87
10950	1,2,4-Trimethylbenze	ene	95-63-6	92	J	75	370	63.87
10950	1,3,5-Trimethylbenze	ene	108-67-8	86	J	75	370	63.87
10950	Xylene (Total)		1330-20-7	140	J	75	370	63.87
Reporting limits were raised due to interference from the sample matrix.								
GC/MS	Semivolatiles	SW-846	8270C	ug/kg		ug/kg	ug/kg	
10724	Anthracene		120-12-7	490	J	390	1,900	10
10724	Benzo(a)anthracene		56-55-3	780	J	390	1,900	10
10724	Benzo(a)pyrene		50-32-8	590	J	390	1,900	10
10724	Benzo(b) fluoranthene	е	205-99-2	540	J	390	1,900	10
10724	Benzo(g,h,i)perylene	е	191-24-2	N.D.		390	1,900	10
10724	Chrysene		218-01-9	2,600		390	1,900	10
10724	Fluorene		86-73-7	N.D.		390	1,900	10
10724	Naphthalene		91-20-3	N.D.		390	1,900	10
10724	Phenanthrene		85-01-8	510	J	390	1,900	10
10724	Pyrene		129-00-0	2,200		390	1,900	10
Repo	rting limits were rai	lsed due t	o interference fr	om the sa	mple m	atrix.		
Metals	3	SW-846	6020	mg/kg		mg/kg	mg/kg	
06135	Lead		7439-92-1	955		0.152	2.93	25
Wet Ch	nemistry	SM20 25	540 G	%		8	%	
00111	Moisture		n.a.	14.6		0.50	0.50	1
	"Moisture" represent	ts the los	ss in weight of th	ne sample	after	oven drying at		
	103 - 105 degrees Coas-received basis.							

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/12

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
10950	BTEX/MTBE/EDB/EDC/Cumene/TM	SW-846 8260B	1	R111161AA	04/26/2011 07:39	Stephanie A Selis	63.87
	Bs						



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Sample Description: W-31@0'-2' Grab Soil

Philadelphia Refinery AOI-10

COC: 259437 W-31@0'-2'

LLI Sample # SW 6262297

LLI Group # 1242849 # 10132 Account

Project Name: SUN: Philadelphia Refinery AOI-10

Collected: 04/15/2011 08:30 by TD SUN: Aquaterra Tech.

PO Box 744

West Chester PA 19381

Submitted: 04/19/2011 14:50 Reported: 04/27/2011 17:23

31-02

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor		
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201111024168	04/15/2011	08:30	Client Supplied	1		
02392	L/H Field Preserved Bisulfate	SW-846 5035	1	201111024168	04/15/2011	08:30	Client Supplied	1		
02392	L/H Field Preserved Bisulfate	SW-846 5035	2	201111024168	04/15/2011	08:30	Client Supplied	1		
10724	PAH 8270 (microwave)	SW-846 8270C	1	11110SLF026	04/21/2011	19:19	Linda M Hartenstine	10		
10814	BNA Soil Microwave PAH	SW-846 3546	1	11110SLF026	04/21/2011	09:30	Kerrie A Freeburn	1		
06135	Lead	SW-846 6020	1	111111026002A	04/25/2011	07:47	Choon Y Tian	25		
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026002	04/21/2011	13:00	James L Mertz	1		
00111	Moisture	SM20 2540 G	1	11112820001B	04/22/2011	18:08	Scott W Freisher	1		



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Sample Description: W-30@0'-2' Grab Soil

Philadelphia Refinery AOI-10

COC: 259437 W-30@0'-2'

LLI Sample # SW 6262298

LLI Group # 1242849 Account # 10132

Project Name: SUN: Philadelphia Refinery AOI-10

Collected: 04/15/2011 11:30 by TD SUN: Aquaterra Tech.

PO Box 744

West Chester PA 19381

Submitted: 04/19/2011 14:50 Reported: 04/27/2011 17:23

30-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/kg		ug/kg	ug/kg	
10950	Benzene		71-43-2	12	J	1	13	1.45
10950	1,2-Dibromoethane		106-93-4	N.D.		3	13	1.45
10950	1,2-Dichloroethane		107-06-2	N.D.		3	13	1.45
10950	Ethylbenzene		100-41-4	N.D.		3	13	1.45
10950	Isopropylbenzene		98-82-8	N.D.		3	13	1.45
10950	Methyl Tertiary Buty	yl Ether	1634-04-4	N.D.		1	13	1.45
10950	Toluene		108-88-3	4	J	3	13	1.45
10950	1,2,4-Trimethylbenze	ene	95-63-6	4	J	3	13	1.45
10950	1,3,5-Trimethylbenze	ene	108-67-8	3	J	3	13	1.45
10950	Xylene (Total)		1330-20-7	N.D.		3	13	1.45
GC/MS	Semivolatiles	SW-846	8270C	ug/kg		ug/kg	ug/kg	
10724	Anthracene		120-12-7	N.D.		57	290	1
10724	Benzo(a)anthracene		56-55-3	70	J	57	290	1
10724	Benzo(a)pyrene		50-32-8	N.D.		57	290	1
10724	Benzo(b) fluoranthene	е	205-99-2	N.D.		57	290	1
10724	Benzo(g,h,i)perylene	е	191-24-2	N.D.		57	290	1
10724	Chrysene		218-01-9	400		57	290	1
10724	Fluorene		86-73-7	N.D.		57	290	1
10724	Naphthalene		91-20-3	110	J	57	290	1
10724	Phenanthrene		85-01-8	350		57	290	1
10724	Pyrene		129-00-0	280	J	57	290	1
Metals	3	SW-846	6020	mg/kg		mg/kg	mg/kg	
06135	Lead		7439-92-1	1,990		0.431	8.29	50
Wet Ch	nemistry	SM20 2	540 G	8		%	%	
00111	Moisture		n.a.	42.0		0.50	0.50	1
	"Moisture" represent 103 - 105 degrees Co as-received basis.					oven drying at		

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/12

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
10950	BTEX/MTBE/EDB/EDC/Cumene/TM	SW-846 8260B	1	X111161AA	04/26/2011 09:25	Holly Berry	1.45
	Bs						
07579	GC/MS-5g Field	SW-846 5035	1	201111024168	04/15/2011 11:30	Client Supplied	1
	Preserv.MeOH-NC						



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Sample Description: W-30@0'-2' Grab Soil

Philadelphia Refinery AOI-10

COC: 259437 W-30@0'-2'

LLI Sample # SW 6262298

LLI Group # 1242849 Account # 10132

Project Name: SUN: Philadelphia Refinery AOI-10

Collected: 04/15/2011 11:30 by TD SUN: Aquaterra Tech.

PO Box 744

West Chester PA 19381

Submitted: 04/19/2011 14:50 Reported: 04/27/2011 17:23

30-02

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
02392	L/H Field Preserved Bisulfate	SW-846 5035	1	201111024168	04/15/2011	11:30	Client Supplied	1
02392	L/H Field Preserved Bisulfate	SW-846 5035	2	201111024168	04/15/2011	11:30	Client Supplied	1
10724	PAH 8270 (microwave)	SW-846 8270C	1	11110SLF026	04/22/2011	00:07	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	11110SLF026	04/21/2011	09:30	Kerrie A Freeburn	1
06135	Lead	SW-846 6020	1	111111026002A	04/25/2011	08:06	Choon Y Tian	50
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111111026002	04/21/2011	13:00	James L Mertz	1
00111	Moisture	SM20 2540 G	1	11112820001B	04/22/2011	18:08	Scott W Freisher	1



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Quality Control Summary

Client Name: SUN: Aquaterra Tech. Group Number: 1242849

Reported: 04/27/11 at 05:23 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank MDL**	Blank <u>LOO</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: R111161AA	Sample num	ber(s): 62	262297						
Benzene	N.D.	25.	250	ug/kg	101	105	80-120	5	30
1,2-Dibromoethane	N.D.	50.	250	ug/kg	100	105	80-120	5	30
1,2-Dichloroethane	N.D.	50.	250	ug/kg	99	103	71-129	3	30
Ethylbenzene	N.D.	50.	250	ug/kg	91	95	80-120	4	30
Isopropylbenzene	N.D.	50.	250	ug/kg	89	92	76-120	4	30
Methyl Tertiary Butyl Ether	N.D.	25.	250	ug/kg	101	105	74-121	4	30
Toluene	N.D.	50.	250	ug/kg	95	98	80-120	4	30
1,2,4-Trimethylbenzene	N.D.	50.	250	uq/kq	88	91	79-120	3	30
1,3,5-Trimethylbenzene	N.D.	50.	250	ug/kg	88	92	78-120	4	30
Xylene (Total)	N.D.	50.	250	ug/kg	94	98	80-120	4	30
Batch number: X111161AA	Sample num	ber(s): 62	262298						
Benzene	N.D.	0.5	5	uq/kq	100	100	80-120	0	30
1,2-Dibromoethane	N.D.	1.	5	uq/kq	99	94	80-120	5	30
1,2-Dichloroethane	N.D.	1.	5	uq/kq	99	97	71-129	3	30
Ethylbenzene	N.D.	1.	5	uq/kq	99	100	80-120	2	30
Isopropylbenzene	N.D.	1.	5	uq/kq	101	103	76-120	2	3.0
Methyl Tertiary Butyl Ether	N.D.	0.5	5	uq/kq	92	86	74-121	6	30
Toluene	N.D.	1.	5	uq/kq	99	99	80-120	0	30
1,2,4-Trimethylbenzene	N.D.	1.	5	uq/kq	95	97	79-120	2	3.0
1,3,5-Trimethylbenzene	N.D.	1.	5	uq/kq	98	100	78-120	2	30
Xylene (Total)	N.D.	1.	5	ug/kg	101	102	80-120	1	30
-									
Batch number: 11110SLF026	Sample num								
Anthracene	N.D.	33.	170	ug/kg	94		83-111		
Benzo(a)anthracene	N.D.	33.	170	ug/kg	93		82-111		
Benzo(a)pyrene	N.D.	33.	170	ug/kg	77		63-138		
Benzo(b)fluoranthene	N.D.	33.	170	ug/kg	81		61-133		
Benzo(g,h,i)perylene	N.D.	33.	170	ug/kg	87		63-130		
Chrysene	N.D.	33.	170	ug/kg	97		81-111		
Fluorene	N.D.	33.	170	ug/kg	99		81-117		
Naphthalene	N.D.	33.	170	ug/kg	92		83-112		
Phenanthrene	N.D.	33.	170	ug/kg	93		83-109		
Pyrene	N.D.	33.	170	ug/kg	101		80-121		
Batch number: 111111026002A	Sample num	ber(s): 62	262297-626	2298					
Lead	N.D.	0.0102	0.196	mg/kg	98		83-110		
Batch number: 11112820001B	Sample num	ber(s): 62	262297-626	2298					
Moisture	-				100		99-101		

Sample Matrix Quality Control

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.



Group Number: 1242849

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Quality Control Summary

Client Name: SUN: Aquaterra Tech.

Reported: 04/27/11 at 05:23 PM Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD <u>Max</u>
Batch number: 11110SLF026	Sample	number(s)	: 6262297	7-62622	98 UNSE	PK: 6262297			
Anthracene	70	36*	40-147	44*	30				
Benzo(a)anthracene	80	36	32-150	45*	30				
Benzo(a)pyrene	47*	35*	57-129	17	30				
Benzo(b) fluoranthene	73	35*	53-131	47*	30				
Benzo(g,h,i)perylene	80	58*	60-123	33*	30				
Chrysene	106	29*	76-114	39*	30				
Fluorene	86	61	46-137	35*	30				
Naphthalene	95	73	52-132	27	30				
Phenanthrene	70	45	34-147	30	30				
Pyrene	58*	22*	76-124	23	30				
Batch number: 111111026002A	Sample	number(s)): 6262297	7-62622	98 UNSE	PK: 6262297	BKG: 626229	7	
Lead	-5739 (2)	-6952 (2)	75-125	5	20	816	601	30*	20
Batch number: 11112820001B	Sample	number(g)): 6262297	7-62622	98 BKC	G: P262286			
Moisture	bampie	TIGHIDET (B)	. 0202291	02022	JO BRO	41.8	42.2	1	15

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL(4.3)by 8260(soil)

Batch number: R111161AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene				
6262297	87	91	86	85				
Blank	86	91	80	78				
LCS	96	102	90	89				
LCSD	99	104	92	90				
Limits:	71-114	70-109	70-123	70-111				
Analysis Name: TCL(4.3) by 8260(soil) Batch number: X111161AA								
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene				
6262298	105	105	103	87				
Blank	104	100	91	92				
LCS	103	106	100	98				
LCSD	101	103	102	98				
Limits:	71-114	70-109	70-123	70-111				
Analysis Name: PAH 8270 (microwave) Batch number: 11110SLF026								
Batch nu	mber: 11110SLF026							

6262297

*- Outside of specification

- **-This limit was used in the evaluation of the final result for the blank
- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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Quality Control Summary

	Name: SUN: Aq ed: 04/27/11 a		Group Number: 1242849				
			Surrogate Quality Control				
6262298	87	98	81				
Blank	97	97	102				
LCS	91	100	99				
MS	99	87	79				
MSD	76	52*	48				
Limits:	55-121	56-121	43-124				

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only

Acct. # 10132 Group# 1242849 Sample # 6262297-98 COC #

259437

0.8-21° Please print. Instructions on reverse side correspond with circled numbers. For Lab Use Only (5) Analyses Requested FSC: Matrix SCR#: Acct. #: _____ **Preservation Codes** Project Name #Sun Philly R.J A01-10 PWSID #: Preservation Codes H=HCI T=Thiosulfate 6 N=HNO₃ B=NaOH P.O.#: Project Manager: S=H2SO4 O=Other Sampler: T. DOFOO Quote #: Name of state where samples were collected: Composite 2 Date Time Soil Collected Sample Identification Collected Remarks W-3100-21 W-3000-21 X 0830 1130 X Jurnaround Time Requested (TAT) (please circle): Normal J Rush Time (9 Time | Received by: Date (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: Time Regerved by: Date Date Rush results requested by (please circle): Phone Fax 191 ___ Fax #: ____ Phone #:__ Relinguished by: Time Received b Date Date E-mail address: SDG Complete? Pata Package Options (please circle if required) ligh Type I (validation/NJ Reg) TX TRRP-13 Time Received by: Relinguished by Date Date Time Type II (Tier II) MA MCP CT RCP Type III (Reduced NJ) Site-specific QC (MS/MSD/Dup)? Yes 🚜 🔊 Time Received by: Relinquished by: Type IV (CLP SOW) Date Date Time Internal COC Required? Yes No H19/4 /450 Type VI (Raw Data Only)



Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL N.D.	Reporting Limit none detected	BMQL MPN	Below Minimum Quantitation Level Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	I	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

Increasie Ovelifiere

ppb parts per billion

Dry weightbasis
Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

	Organic Qualifiers		Inorganic Qualifiers
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
Ε	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Ormania Ovalitiana

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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